1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* 🡪 multiplication operator

'hello' 🡪 string value

-87.8 🡪 float value

- 🡪 subtract operator

/ 🡪 division operator

* 🡪 add operator

6 🡪 value

2. What is the difference between string and variable?

🡪 Variable stores values and string is value itself and define using using double or single quotes.

3. Describe three different data types.

🡪 Int – it is integer datatype for decimal data or we can say base10 values eg. 45,67,etc .

Float – it is decimal values eg. 45.678 ,23.33,etc

String -it is both character as well as words or sentences defined using double quotes or single quotes . eg. ‘hello ‘ , “World”

4. What is an expression made up of? What do all expressions do?

🡪Expression is a combination of both values and operators .Expressions process the values between operands to generate another value.

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

🡪 Expressions process the values between operands to generate another value while statements either assigns values ,check condiions or display value on screen.

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

🡪After running this code ,value inside bacon variable does not change because we have not stored updated value to bacon variable.

7. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

🡪Both will give same result

8. Why is eggs a valid variable name while 100 is invalid?

🡪 Because valid variable name cannot start with integer .It can contain integer after the letters.

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

🡪int(), float(), str()

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

* This expression will through error because it is trying to add string and numerical i.e two different datatypes values. If can fix it as given below:
* ‘I have eaten’ +’99’ +’burritos’